

WHAT IS CLAIMED IS:

1. A spindle motor comprising:

a shaft rotatably supported;

a rotor casing turned together with said shaft;

a turn table fixedly mounted on one end portion of said shaft and rotated with a disk mounted thereon;

an eccentric member loosely mounted on the part of said shaft which is located between said rotor casing and said turn table, and which is turned with the rotation of said rotor casing.

2. A spindle motor as claimed in claim 1, wherein said eccentric member is turned while being maintained in a direction in which said eccentric member cancels out the eccentric gravity center.

3. A spindle motor as claimed in claim 1, wherein said eccentric member has a hole larger in diameter than said shaft at a position which is off the gravity center thereof, said hole being loosely fitted on said shaft.

4. A spindle motor as claimed in claim 2, wherein more than one eccentric member are loosely fitted on said shaft.

5. A spindle motor as claimed in claim 1, wherein a low-friction-coefficient member is interposed between said eccentric

~~3 member and said rotor casing.~~

Sub 7  
1 6. A spindle motor comprising:  
2 a shaft rotatably supported;  
3 a rotor casing turned together with said shaft;  
4 a turn table fixedly mounted on one end portion of said  
5 shaft and rotated with a disk mounted thereon;  
6 a cylindrical wall integral with one of said rotor casing  
7 and said turn table, and having an annular space inside there; and  
8 a ball arranged so as to be able to freely roll in said  
9 space.

1 7. A spindle motor as claimed in claim 6, wherein said ball  
2 revolves, when said disk is turned, around said shaft while being  
3 maintained held at a position to cancel out the eccentric gravity  
4 center of said disk.

1 8. A spindle motor as claimed in claim 7, wherein a plurality  
2 of balls are placed in said space.

4 2  
1 9. A spindle motor as claimed in claim 7, wherein said ball  
2 is made of magnetic material, and when said turn table is stopped,  
3 said ball is attracted by an annular magnet which is provided on  
4 the inner cylindrical surface of said cylindrical wall.

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A spindle motor comprising:

2 a shaft rotatably supported;  
3 a rotor casing turned together with said shaft;  
4 a turn table fixedly mounted on one end portion of said  
5 shaft and rotated with a disk mounted thereon; and  
6 a movable balance member arranged between said rotor casing  
7 and said turn table, and which, as said rotor casing is turned,  
8 is moved on a circumference whose center is said shaft, to maintain  
9 the rotational balance of said disk.